

The diagram shows three push buttons, SW1, SW2, and SW3, connected to a common ground (GND). Each button is connected to a specific microcontroller pin: SW1 to BTN_RST, SW2 to BTN_UI, and SW3 to BTN_NET. The buttons are labeled SW_Push.

[illegible]

NET_LED_R (red) → R18 → LED Anode
 NET_LED_G (green) → R17 → LED Anode
 NET_LED_B (blue) → R16 → LED Anode
 All LED Cathodes → Common Ground
 Module: ASMB-MTB1-0A3A2, D4, +3.3V

The schematic diagram illustrates the STM32F405RGtx microcontroller board. The microcontroller is connected to a 3.3V supply and ground. The board includes several capacitors (C11-C15, C21-C23) and resistors (R1, R2). A 4KB LED is connected to the microcontroller. The board also features a USB-to-UART bridge (FT232RL) and a USB-to-UART bridge (FT232RL).

BATTERY - 2MM T

1	J1	BAT+
2		GND

Conn_01x02_Female

FIRMWARE - 2MM R

1	J11	MGMT_BOOT_2
2		MGMT_NRST
3		MGMT_SWID0_4
4		MGMT_SWICK5_6
5		GND

Conn_01x06_Female

PROGRAM - 2MM L

1	J10	NET_TXD_16
2		NET_RXD_16
3		NET_BOOT_3
4		NET_RST_4
5		UI_SWIDCK2_2
6		UI_SWIDCK2_2
7		UI_BOOT_3
8		UI_RST_4

Conn_01x04_Female

UI SERIAL - 1MM B

1	J5	UI_TX3
2		UI_RX3
3		GND

Conn_01x04_Female

Display - 2MM J

1	J4	DISP_B_L
2		DISP_RST_R
3		DISP_DC
4		DISP_CS
5		DISP_SPI_CS
6		DISP_SPI_MOSI
7		VIN
8		GND

C20 100n

Conn_01x08_Male

HEADSET - 2MM R

1	J8	MIC_P
2		MIC_N
3		IN_3
4		HP_L
5		HP_R
6		GND

Conn_01x06_Female

UI I2C - 1MM B

1	J7	UI_SCL
2		UI_SDA
3		GND

Conn_01x04_Female

SPEAKER - 2MM R

1	J12	SPK_LIN
2		SPK_LP
3		GND

Conn_01x02_Female

NET I2C - 1MM B

1	J3	NET_SDA
2		NET_SCL
3		GND

Conn_01x04_Female

BUTTON - 1MM T

1	J13	BTN_RST
2		BTN_WU
3		BTN_NET
4		GND

Conn_01x04_Female

DEBUG - 2MM L

1	J10	UID_DBG1
2		UID_DBG2
3		UID_DBG3
4		UID_DBG4
5		NET_DBG5
6		NET_DBG6
7		MGMT_DBG7
8		GND

Conn_01x08_Female

The diagram shows a +3.3V regulator circuit. It includes a +3.3V input, a ferrite bead (120R1), and three capacitors: C8 (10nF), C9 (1uF), and C10 (1uF). The capacitors are connected to ground (GND). The output of the regulator is +3.3V.

Pin diagram of the BM14B(0.8) package. The package is a 14-pin DIP. The pin numbers and functions are as follows:

Pin	Function
1	GND
2	KB_ROW1
3	KB_ROW2
4	KB_ROW3
5	KB_ROW4
6	KB_ROW6
7	KB_ROW7
8	KB_ROW7
9	KB_ROW7
10	KB_ROW7
11	KB_ROW7
12	KB_ROW7
13	KB_ROW7
14	KB_ROW7
15	KB_ROW7
16	KB_ROW7
17	KB_ROW7
18	KB_ROW7
19	KB_ROW7
20	KB_ROW7
21	KB_ROW7
22	KB_ROW7
23	KB_ROW7
24	KB_ROW7

BM14B(0.8) - 2405 - 0.4W(53)

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EV7 layer build up:
top:    High Speed
second: GND
third:  3.3V
bottom: Low Speed
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